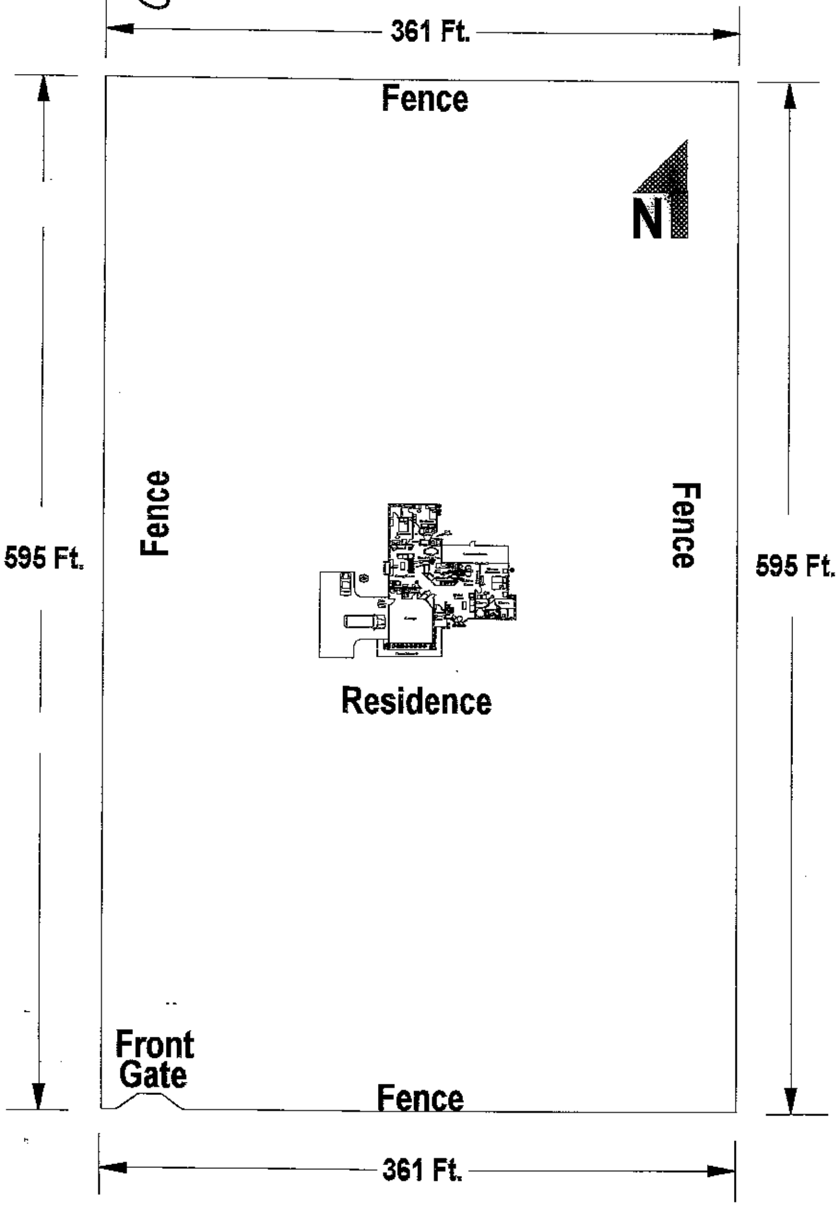
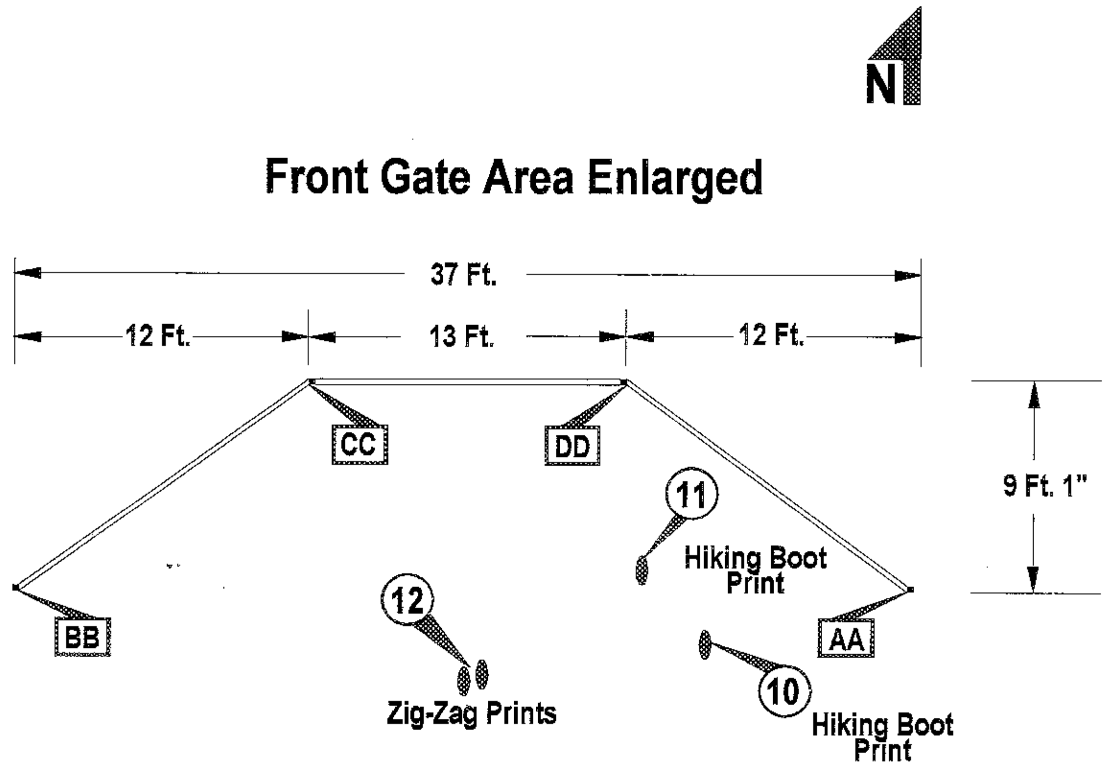
Central Records
96117397

Lake County Sheriff's Office
Technical Services





LCSO Case #96-11-7397
Drawn By: CST Jim Binkley
April 10, 1997

24135 Greentree Lane
Eustis, Florida

Diagram #1
Not To Scale

Lake County Sheriff's Office
Technical Services

24135 Greentree Lane
Eustis, Florida

LCSO Case #96-11-7397
Drawn By: CST Jim Binkley
March 25, 1997

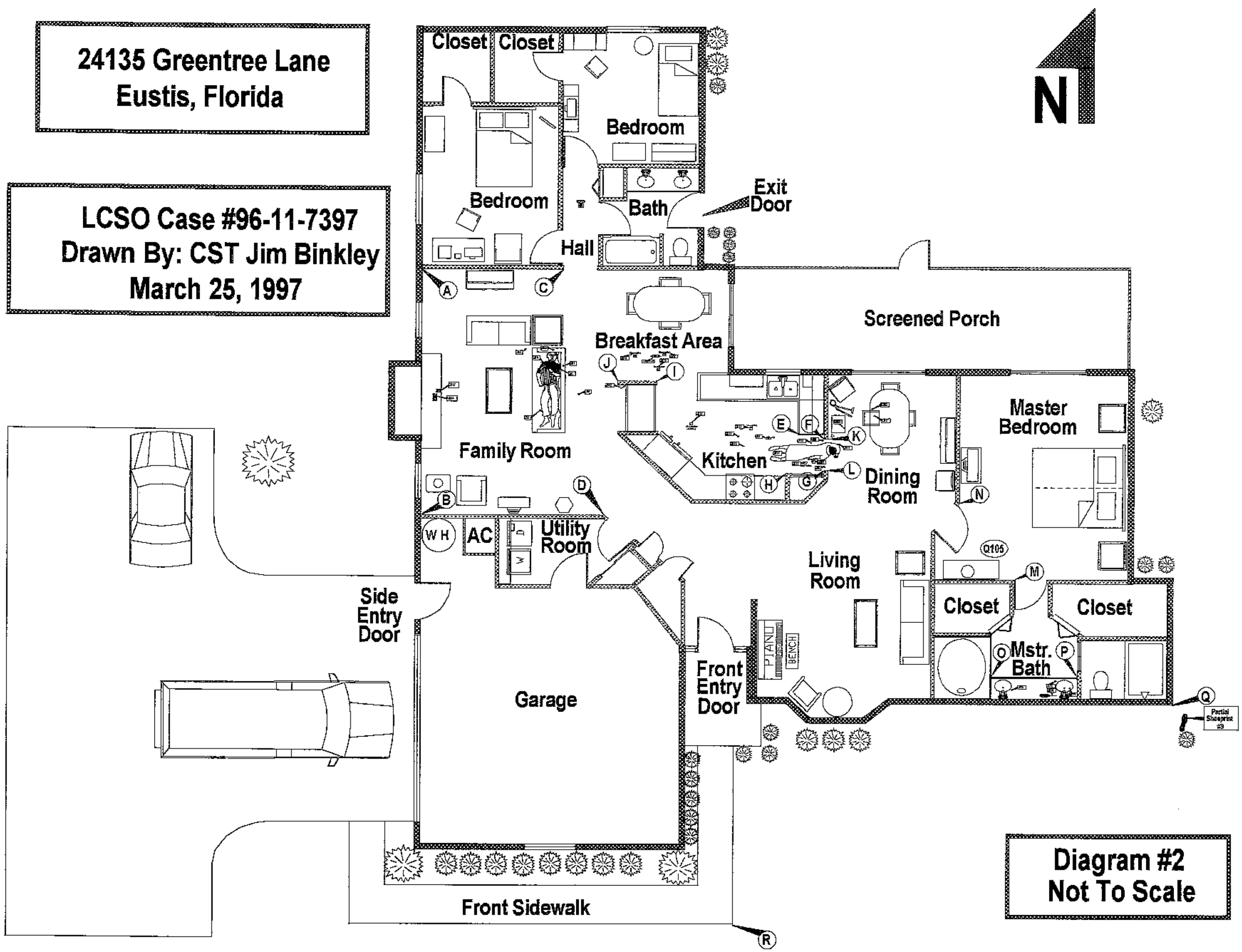
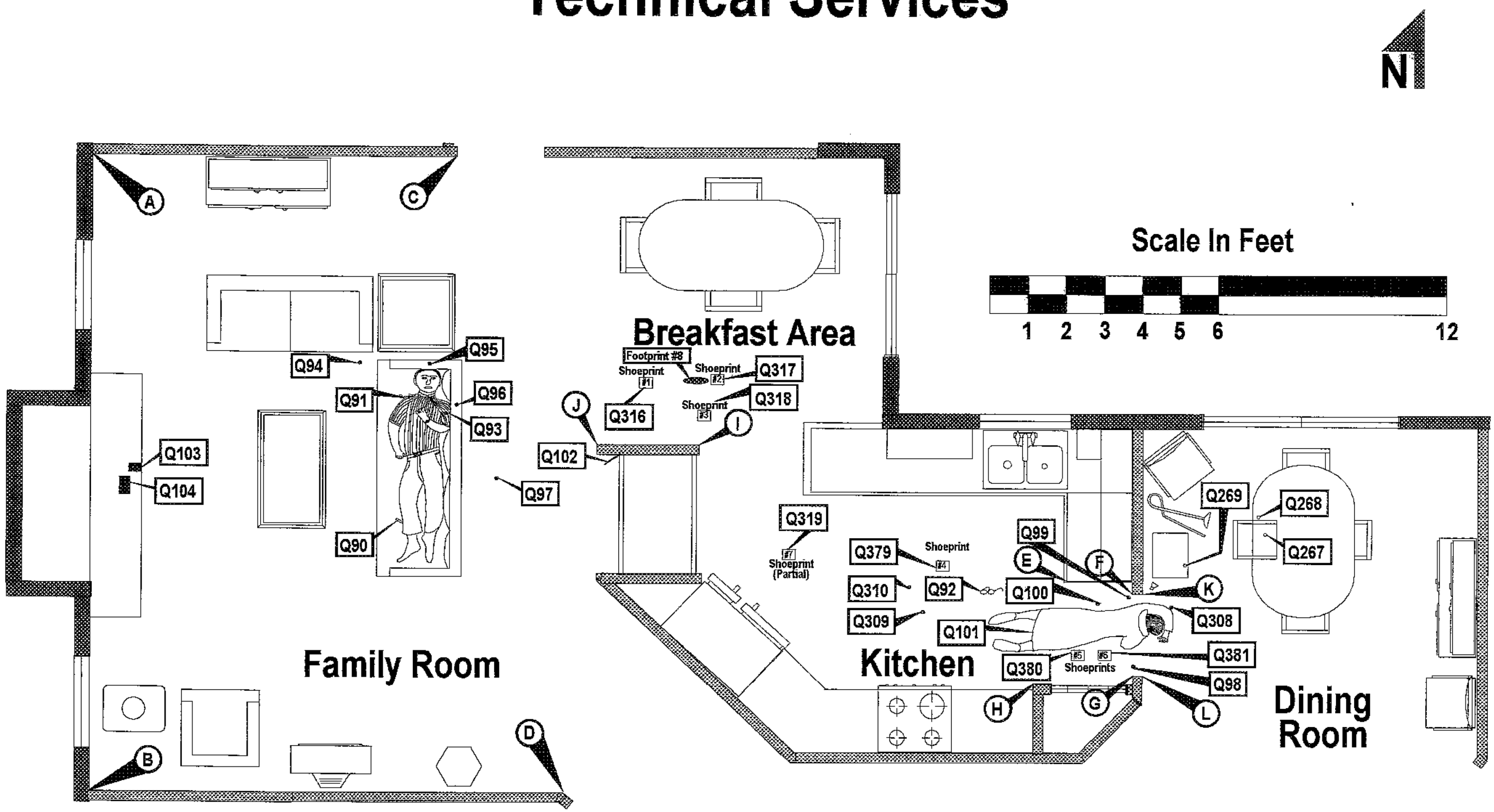


Diagram #2
Not To Scale

Lake County Sheriff's Office

Technical Services



LCSO Case #96-11-7397
Drawn By: CST Jim Binkley
March 27, 1997

24135 Greentree Lane
Eustis, Florida

Diagram #3
Scale Approximate

Lake County Sheriff's Office
Technical Services

INVESTIGATIVE REPORT

By:	C.S.T. Jim Binkley	Case #:	96-11-7397

LEGEND :

DIAGRAM #1 --- FRONT GATE AND OVERALL PROPERTY AREA

REFERENCE POINTS USED

AA= Southeast reference point of front gate area.
BB= Southwest reference point of front gate area.
CC= West end of front gate.
DD= East end of front gate.

EVIDENCE

Hiking Boot Print #10 --- Photographs Only
Hiking Boot Print #11 --- Photographs Only
Zig Zag Shoeprints #12 --- Photographs Only

MEASUREMENTS

AA To Hiking Boot Print #10 = 8' 8"
AA To Hiking Boot Print #11 = 11' 3"
AA To Zig Zag Shoeprints #12 = 13' 10"
DD To Hiking Boot Print #10 = 12'
DD To Hiking Boot Print #11 = 8' 2"
DD To Zig Zag Shoeprints #12 = 13' 10 3/4"

INVESTIGATIVE REPORT

By:	C.S.T. Jim Binkley	Case #:	96-11-7397

LEGEND :

DIAGRAM #2 --- ENTIRE RESIDENTIAL AREA

REFERENCE POINTS USED
A = Northwest corner of family room
B = Southwest corner of family room
C = East end of northwest wall of family room
D = East end of south wall of family room
E = Southwest corner of east wing of kitchen cabinets
F = South end of northeast wall of kitchen
G = North end of southeast wall of kitchen
H = Northwest corner of pantry on south wall of kitchen
I = Northeast corner of north pass through wall
J = Northwest corner of north pass through wall
K = Southeast corner of northwest dining room wall
L = Northeast corner of southwest dining room wall
M = East end of southwest master bedroom wall
N = South end of northwest master bedroom wall
O = West end of master bath vanity counter-top
P = East end of master bath vanity counter-top
Q = Southeast exterior corner of residence
R = Southeast corner of front sidewalk

Q NUMBERS AND EVIDENCE
Q90 = Pocket Knife
Q91 = Male Eyeglasses
Q92 = Female Eyeglasses
Q93 = Tooth
Q94 = Hair #1
Q95 = Hair #2
Q96 = Hair #3
Q97 = Hair #4
Q98 = Hair #5
Q99 = Hair #6

Lake County Sheriff's Office
Technical Services

INVESTIGATIVE REPORT

By:	C.S.T. Jim Binkley	Case #:	96-11-7397

LEGEND :

DIAGRAM #2 --- ENTIRE RESIDENTIAL AREA

Q NUMBERS AND EVIDENCE

Q100 = Hair #7
Q101 = Females Blue Housecoat
Q102 = Wooden Paint Brush
Q103 = Brown Wallet
Q104 = Checkbook/Address Book
Q105 = Miscellaneous Papers
Q267 = Bone Fragment #1
Q268 = Bone Fragment #2
Q269 = Bone Fragment #3
Q308 = Hair #8
Q309 = Hair #9
Q310 = Hair #10
Q311 = Hair #11
Q312 = Hair #12
Q313 = Hair #13
Q314 = Hairbrush
Q316 = Shoeprint #1
Q317 = Footprint #2
Q318 = Shoeprint #3
Q379 = Shoeprint #4
Q380 = Shoeprint #5
Q381 = Shoeprint #6
Q319 = Shoeprint #7 (Partial)

Photographs Only Footprint #8
Photographs Only Shoeprint #9 (Partial)

INVESTIGATIVE REPORT

By:	C.S.T. Jim Binkley	Case #:	96-11-7397

LEGEND :

DIAGRAM #2 --- ENTIRE RESIDENTIAL AREA

MEASUREMENTS

FAMILY ROOM

C to Q90 = 146 1/2"
C to Q91 = 98"
C to Q93 = 102"
C to Q94 = 90 1/4"
C to Q95 = 83"
C to Q96 = 98 1/2"
C to Q97 = 128 3/4"
C to Q102 = 134 3/4"
C to Q103 = 176 1/4"
C to Q104 = 184 1/2"
D to Q90 = 124 1/4"
D to Q91 = 168"
D to Q93 = 156 1/2"
D to Q94 = 188"
D to Q95 = 178 1/4"
D to Q96 = 158 1/2"
D to Q97 = 126 1/2"
D to Q102 = 133 1/4"
D to Q103 = 211"
D to Q104 = 209"

BREAKFAST AREA

I to Q316 = 34"
I to Q317 = 28"
I to Q318 = 37"
I to Footprint #8 = 25 1/2"
J to Q316 = 31"
J to Q317 = 54"
J to Q318 = 43"
J to Footprint #8 = 46"

INVESTIGATIVE REPORT

By:	C.S.T. Jim Binkley	Case #:	96-11-7397

LEGEND :

DIAGRAM #2 --- ENTIRE RESIDENTIAL AREA

MEASUREMENTS

KITCHEN AREA

E to Q92 = 28 1/2"
E to Q98 = 42 1/2"
E to Q99 = 24 3/4"
E to Q100 = 15 1/2"
E to Q309 = 62"
E to Q310 = 58"
E to Q319 = 113"
E to Q379 = 48"
F to Q380 = 31"
F to Q381 = 26"
H to Q 92 = 39 1/2"
G to Q98 = 4"
G to Q99 = 31"
G to Q100 = 31"
H to Q309 = 62"
H to Q310 = 52"
H to Q319 = 112"
G to Q379 = 86"
G to Q380 = 20"
G to Q381 = 14"

DINING ROOM AREA

E to Q308 = 42"
K to Q267 = 46 1/2"
K to Q268 = 42 1/2"
K to Q269 = 17"
H to Q308 = 62"
L to Q267 = 55 3/4"
L to Q268 = 57"
L to Q269 = 45"

INVESTIGATIVE REPORT

By:	C.S.T. Jim Binkley	Case #:	96-11-7397

LEGEND :

DIAGRAM #2 --- ENTIRE RESIDENTIAL AREA

MEASUREMENTS

MASTER BEDROOM AREA

M to Q105 = 38 1/2"
N to Q105 = 58"

MASTER BATHROOM AREA

O to Q311 = 81 3/8"
O to Q312 = 67 9/16"
O to Q313 = 26 3/16"
O to Q314 = 60 3/4"
P to Q311 = 14 1/8"
P to Q312 = 20 9/16"
P to Q313 = 67 11/16"
P to Q314 = 36 1/4"

RESIDENTIAL EXTERIOR AREA

Q to Shoeprint #9 = 2 Ft.
R to Shoeprint #9 = 42 Ft.

Lake County Sheriff's Office
Technical Services

INVESTIGATIVE REPORT

By:	C.S.T. JIM BINKLEY	Case #:	96-11-7397

LEGEND :

DIAGRAM #3 --- LOCATION OF BODIES

REFERENCE POINTS USED TO LOCATE MALE BODY

C = East end of northwest wall of family room

D = East end of south wall of family room

		MEASUREMENTS
C to	Ctr. of Forehead	7' 7"
C to	Nose	7' 10 1/2"
C to	Right Shoulder	8' 4"
C to	Right Elbow	9' 1"
C to	Right Wrist	9' 8 1/2"
C to	Right Hand knuckles	9' 10"
C to	Right Hip	10'
C to	Right Knee	11' 2 1/2"
C to	Right Ankle	12' 7"
C to	Right Big Toe	13' 1"
C to	Left Shoulder	8' 4"
C to	Tooth on Left Sleeve	8' 8"
C to	Left Elbow	9' 2"
C to	Left Wrist	8' 10"
C to	Left Hand Knuckles	8' 8"
C to	Left Hip	9' 8"
C to	Left Knee	11' 1"
C to	Left Ankle	12' 7"
C to	Left Big Toe	12' 11"

INVESTIGATIVE REPORT

By:	C.S.T. Jim Binkley	Case #:	96-11-7397

LEGEND :

DIAGRAM #3 --- LOCATION OF BODIES

REFERENCE POINTS USED TO LOCATE MALE BODY

C = East end of northwest wall of family room

D = East end of south wall of family room

		MEASUREMENTS
D to	Ctr. of Forehead	12' 10"
D to	Nose	12' 7"
D to	Right Shoulder	12' 11"
D to	Right Elbow	12' 9"
D to	Right Wrist	11' 10"
D to	Right Hand Knuckles	11' 7"
D to	Right Hip	11' 3"
D to	Right Knee	10' 3"
D to	Right Ankle	8' 10 1/2"
D to	Right Big Toe	8' 10"
D to	Left Shoulder	12' 1"
D to	Tooth On Left Sleeve	11' 10"
D to	Left Elbow	11' 3"
D to	Left Wrist	11' 10"
D to	Left Hand Knuckles	12' 1"
D to	Left Hip	10' 11"
D to	Left Knee	9' 8"
D to	Left Ankle	8' 8"
D to	Left Big Toe	8' 3"

Lake County Sheriff's Office
Technical Services

INVESTIGATIVE REPORT

By:	C.S.T. Jim Binkley	Case #:	96-11-7397

LEGEND :

DIAGRAM #3 --- LOCATION OF BODIES

REFERENCE POINTS USED TO LOCATE FEMALE BODY

E = Southwest corner of east wing of kitchen cabinets
H = Northwest corner of pantry on south wall of kitchen

		MEASUREMENTS
E to	Left Big Toe	37 1/2"
E to	Left Heel	30"
E to	Left Knee	19"
E to	Ctr. Of Buttocks	22"
E to	Left Shoulder	36"
E to	Left Elbow	44"
E to	Left Wrist	54 1/2"
E to	Left Thumb	56"
E to	Right Hand	44 1/2"
E to	Right Elbow	38 1/2"
E to	Right Shoulder	41 1/4"
E to	Right Knee	27 1/2"
E to	Right Heel	39 1/4"
E to	Right Big Toe	39"

INVESTIGATIVE REPORT

By:	C.S.T. Jim Binkley	Case #:	96-11-7397

LEGEND :

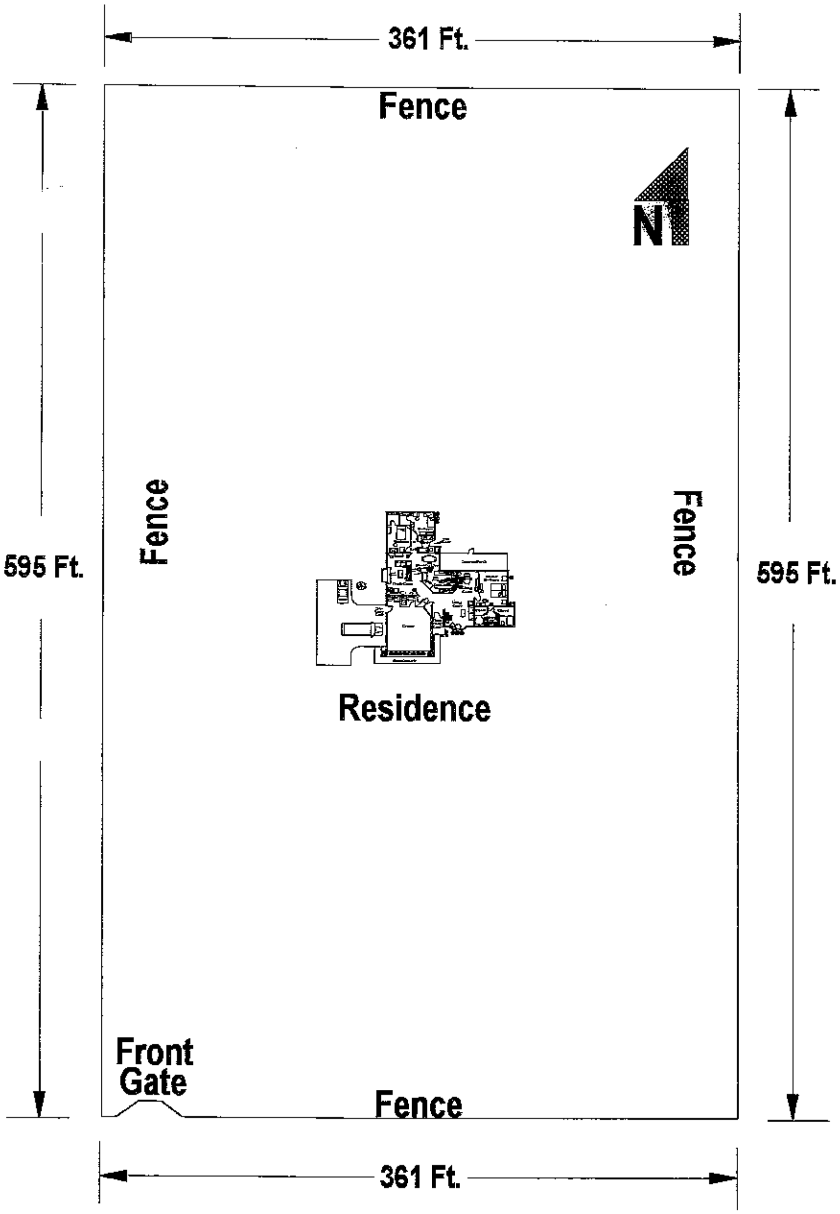
DIAGRAM #3 --- LOCATION OF BODIES

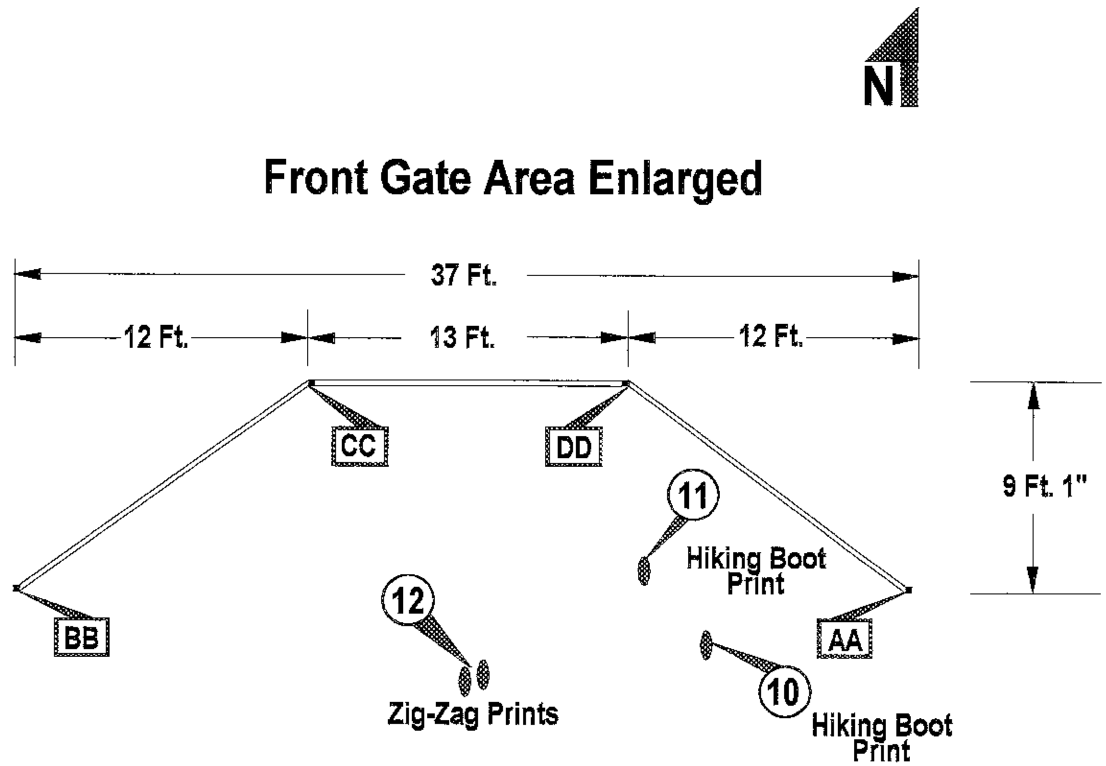
REFERENCE POINTS USED TO LOCATE FEMALE BODY
E = Southwest corner of east wing of kitchen cabinets
H = Northwest corner of pantry on south wall of kitchen

		MEASUREMENTS
H to	Left Big Toe	21 1/2"
H to	Left Heel	25 1/4"
H to	Left Knee	25 1/2"
H to	Ctr. Of Buttocks	32 1/2"
H to	Left Shoulder	57 1/2"
H to	Left Elbow	63"
H to	Left Wrist	66 1/2"
H to	Left Thumb	65 1/2"
H to	Right Hand	54 1/2"
H to	Right Elbow	40 1/2"
H to	Right Shoulder	51"
H to	Right Knee	17 1/2"
H to	Right Heel	11 1/2"
H to	Right Big Toe	18"

C. R.

Lake County Sheriff's Office
Technical Services





LCSO Case #96-11-7397
Drawn By: CST Jim Binkley
April 10, 1997

24135 Greentree Lane
Eustis, Florida

Diagram #1
Not To Scale

Lake County Sheriff's Office
Technical Services

24135 Greentree Lane
Eustis, Florida

LCSO Case #96-11-7397
Drawn By: CST Jim Binkley
March 25, 1997

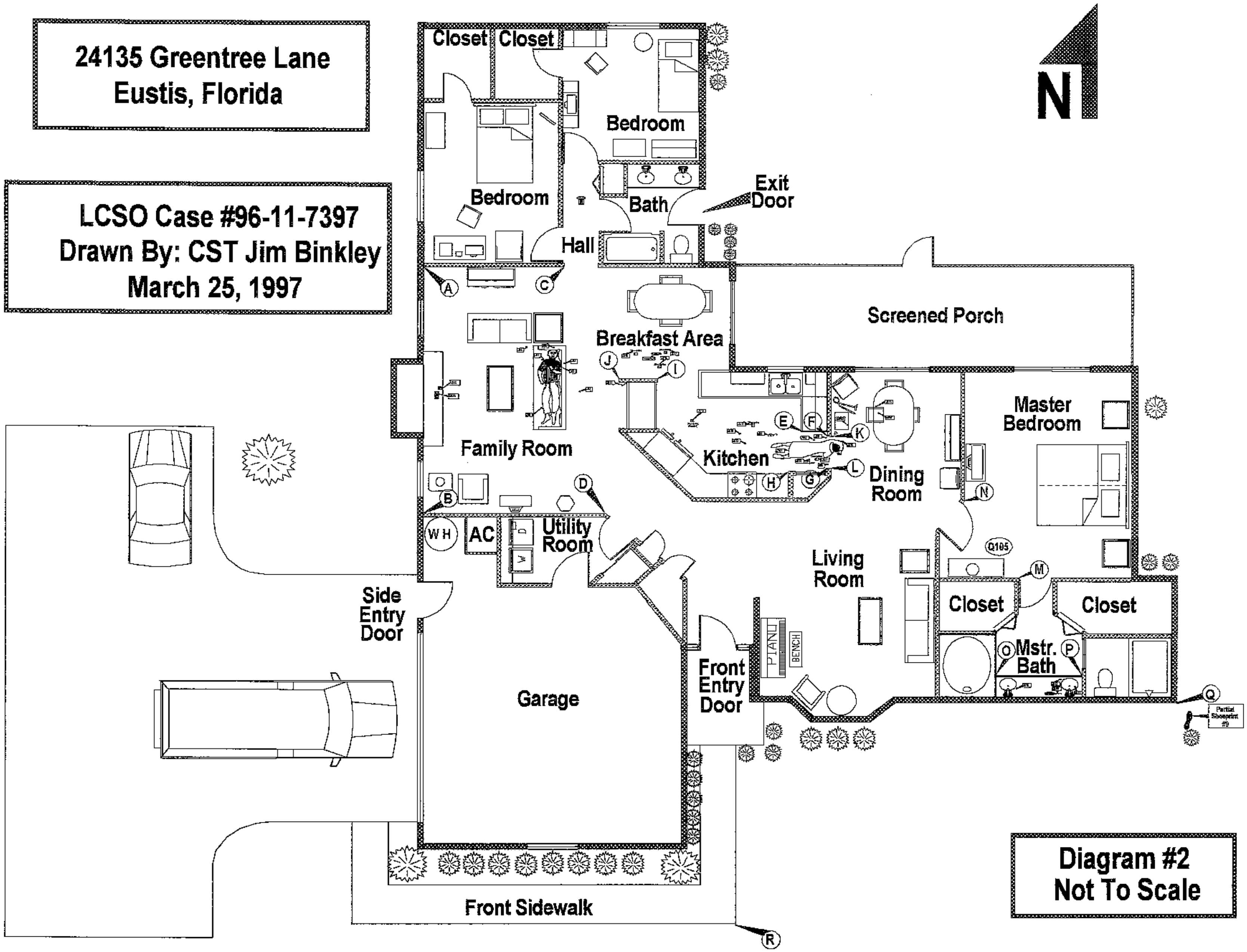
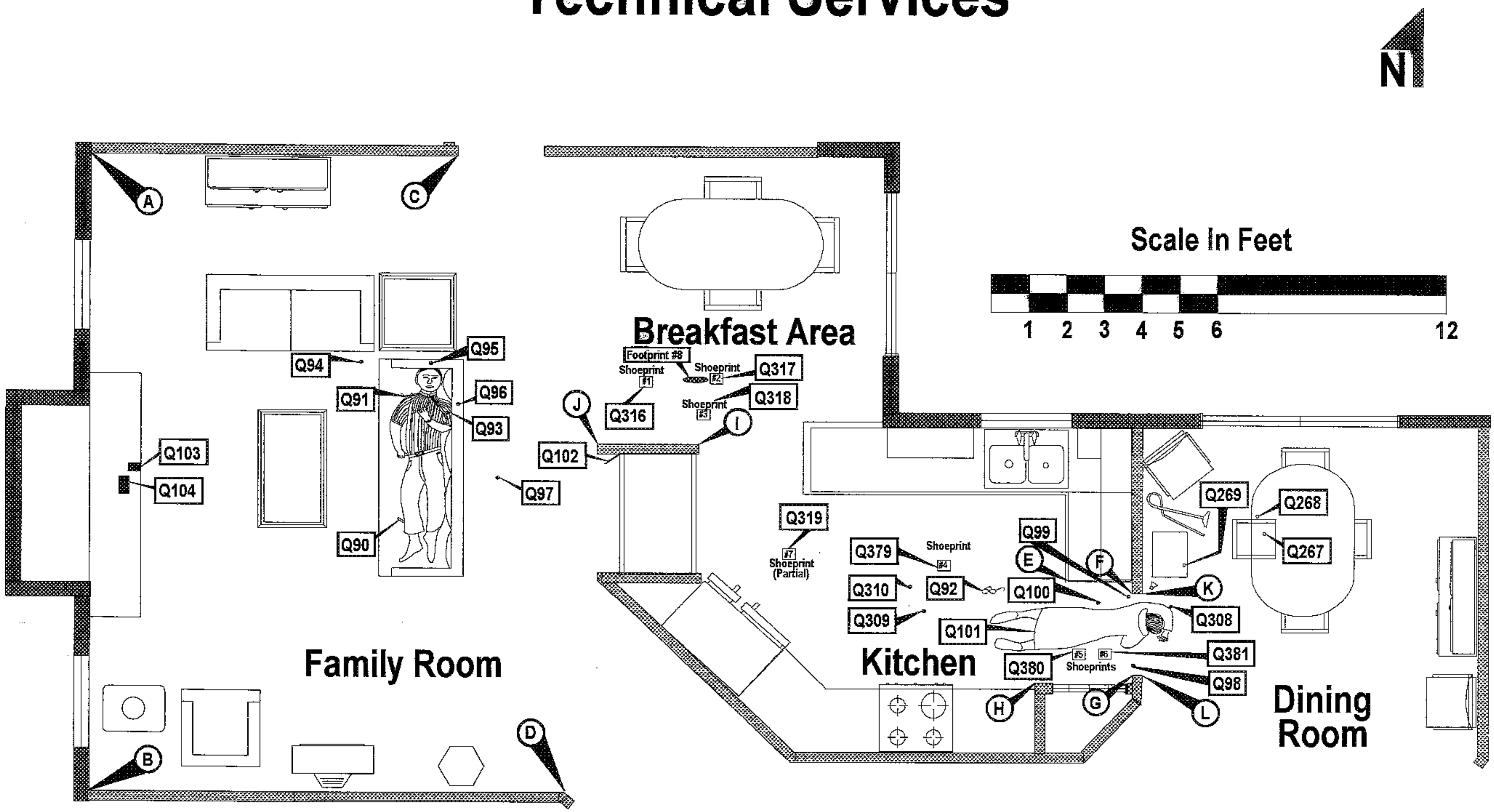


Diagram #2
Not To Scale

Lake County Sheriff's Office
Technical Services



LCSO Case #96-11-7397
Drawn By: CST Jim Binkley
March 27, 1997

24135 Greentree Lane
Eustis, Florida

Diagram #3
Scale Approximate

Q Numbers Depicted in Diagram

Lake County Sheriff's Office
TECHNICAL SERVICES
PHOTO LOG

C. R.

"Q"#	Roll No.	Frame	Photo By	Description	Location
90	4930	2	FC	POCKET KNIFE	COUCH NEXT TO FEET OF MALE VICTIM
91	4930	12	FC	MALE EYEGLASSES	COUCH NEXT TO MALE VICTIMS RIGHT SHOULDER
92	4901	3	RD	FEMALE EYEGLASSES	KITCHEN FLOOR- LEFT OF FEMALES FEET
93	4930	6	FC	TOOTH	LEFT SHOULDER AREA OF MALE VICTIM
94	4930	3	FC	HAIR 1	FAMILY ROOM FLOOR NEAR NW CORNER OF COUCH
95	4930	5	FC	HAIR 2	ARMREST OF COUCH, N- END NEAR HEAD OF VICTIM
96	4930	4	FC	HAIR 3	N- END OF COUCH, REAR CORNER
97	4900	16	RD	HAIR 4	FLOOR- REAR OF COUCH
98	4901	8	RD	HAIR 5	NEAR FEMALE VICTIMS RIGHT ELBOW
99	4901	9	RD	HAIR 6	KITCHEN FLOOR- R FRONT CORNER TRASH CAN
100	4901	6	RD	HAIR 7	LEFT OF FEMALES HIP
101	4901	2	RD	FEMALES BLUE HOUSECOAT	SEEN ON FEMALE IN MANY OTHER PHOTOS
102	4917	2&3	JEB	WOODEN PAINT BRUSH	FLOOR NEAR PASS THROUGH COUNTER
103	4917	7	JEB	BROWN WALLET	FIREPLACE MANTLE, FAMILY ROOM
104	4917	7	JEB	ADDRESS BOOK / CHECKBOOK	FIREPLACE MANTLE, FAMILY ROOM
105	4917	9	JEB	MISCELLANEOUS PAPERS	FLOOR OF MASTER BEDROOM, FRONT OF DRESSER
267			JEB	BONE FRAGMENT #1	NO PHOTO- APPEARS IN VIDEO Q-89
268				BONE FRAGMENT #2	NO PHOTO
269				BONE FRAGMENT #3	NO PHOTO
308	4963	3A	JEB	HAIR 8	DINING ROOM FLOOR WHERE FEMALE VICTIM LAY

Q Numbers Depicted in Diagram

Lake County Sheriff's Office
TECHNICAL SERVICES
PHOTO LOG

"Q"#	Roll No.	Frame	Photo By	Description	Location
309	4963	6A	JEB	HAIR 9	KITCHEN FLOOR
310	4963	7A	JEB	HAIR 10	KITCHEN FLOOR
311	4963	21A	JEB	HAIR 11	MASTER BATH SINK
312	4963	22A	JEB	HAIR 12	MASTER BATH SINK
313	4963	18A	JEB	HAIR 13	MASTER BATH SINK
314	4963	19A	JEB	HAIR BRUSH	MASTER BATH SINK
316	4933	1 & 2	FC	SHOE 1	BREAKFAST AREA FLOOR
317	4933	5 & 6	FC	SHOE 2	BREAKFAST AREA FLOOR
318	4933	7	FC	SHOE 3	BREAKFAST AREA FLOOR
379	4928	12	FC	SHOE 4	KITCHEN FLOOR
380	4928	13	FC	SHOE 5	KITCHEN FLOOR
381	4928	13	FC	SHOE 6	KITCHEN FLOOR
319	4963	15A	JEB	SHOE 7 (PARTIAL)	KITCHEN FLOOR
	4933	3	FC	FOOT 8 (PHOTO ONLY)	BREAKFAST AREA FLOOR (out of focus)
	4929	4	FC	SHOE 9 (PHOTO ONLY)	SE CORNER HOUSE, OUTSIDE (many other frames)

RECORDS

Lake County Sheriff's Office

Technical Services

BLOODSTAIN ANALYSIS REPORT

1. BY: Farley Caudill	2. CASE NO.: 96-11-7397
CASE TITLE: Wendorf	4. DATE: 11/25/96
CASE TYPE: Homicide	

SYNOPSIS:

This report is in reference to a Bloodstain Pattern Analysis which was conducted on December 3-4, 1996 and the week of June 23, 1997, by Crime Scene Technician (CST) Caudill. The analysis was conducted on physical evidence and photographs from the Richard Wendorf, Naomi Green Homicide Investigation.

Farley Caudill *Farley Caudill*	S-238	7/30/97
Technicians Signature:	ID#:	Date:
Lt. Don Gregory *DBG*	S-24	*08 11 97*
Approved By:	ID#:	Date:

CRIME SCENE BACKGROUND:

On November 25, 1996 approximately 2300 hours, CST Caudill and other members of the Lake County Sheriff's Office arrived at the residence at 24135 Greentree Lane, Eustis FL. for the purpose of processing the scene of a double homicide. Upon entering the family room of the residence the following was observed;

On the south wall of the family room was a hall tree, TV (on), chair, and end table with lamp (on). On the west wall was a fireplace flanked by two windows. On the north wall was two book cases. In the center of the room was a love seat (running west to east) an end table at the east end of the love seat, and a couch (running north to south) on the south side of the end table. There was a coffee table parallel to and in front of the couch.

On the couch was the body of Richard Wendorf. Head to the north and feet to the south. Face up. Left arm close to the body and bent at the elbow with the hand on the chest area. The right arm was slightly out away from the body with the hand close to the right hip. The legs were straight and together. There was a small pocket knife with silver colored tips and a black handle near the right foot.

There appeared to be several wounds on the top, front portion of the victims head and face. The wounds were somewhat aligned front to back as opposed to side to side. The wounds appeared as cuts approximately three inches in length, and were consistent with blunt force trauma in that skull fractures were visible. The cushion to the left of the victims head was soaked in blood as well as the cushion behind the victims head.

There was a relatively small degree of blood spatter on the end table behind the victims head and on the floor to the east side or back of the couch. There was a void area east of the end table and north of the couch where little to no blood spatter was found.

Looking through the pass-through counter to the east end of the kitchen the body of Naomi Green was visible. There were suspected blood drops seen on the floor trailed from the breakfast area to the point where the body lay. The victim was face down.

The lower torso and legs were in the kitchen and the upper torso and head lay in the floor of the dining room. Closer examination of the victim showed that there was severe trauma to the rear and base of the head. There was also a large pool of congealed blood around the head and upper torso. The damage was so severe that the inside of the skull cavity was visible. The right arm was close to the body, elbow bent and the hand near the face. A cut was visible on the back of the right hand. The left arm was somewhat under the body and the hand was next to the head.

CRIME SCENE BACKGROUND con't;

There were two partial shoe prints in suspected blood (zig-zag type pattern) near the right side of the victims upper torso. There was a high degree of blood spatter present on the inside of the doorway between the kitchen and dining room and the west dining room wall. There was a bone fragment on top of a vacuum cleaner north of the victim against the dining room west wall. There was a dining room table and four chairs approximate center of the dining room. Under the table at the west side were two more bone fragments.

DETAILS:

TERMINOLOGY USED IN THIS REPORT:

Point of origin - That location that blood is discharged from an object or person.

Point of convergence - That area where lines drawn from spattered blood indicating directionality, converge.

Spattered blood - A random distribution of small droplets of blood which are deposited on a target as a result of forceful impact.

Target - The surface on which blood is deposited.

Dropped blood - Freefalling drops of blood which produce individual spots.

Splashed blood - Freefalling blood in excess of one drop, which falls upon itself.

Contact bloodstains - A bloodstain which results from the touching of a bloody object with a non bloody object.

Medium velocity spatter - A bloodstain pattern consisting of individual spots which are predominately 1/8 inches or 3mm and larger in diameter.

Cast off - Blood which is flung from a moving object as a result of a change in speed or direction.

EXAMINATION OF SCENE:

On December 3-4, 1996 CST Caudill conducted a Bloodstain Pattern Analysis of the kitchen floor, kitchen/dining room doorway, the west wall of the dining room, sofa and the end table at the north end of the sofa in the family room as well as the blue housecoat from the female victim.

On the week of June 23, 1997 CST Caudill conducted a Bloodstain Pattern Analysis of the above mentioned areas from appropriate crime scene photographs.

EXAMINATION OF SCENE con't;

SOFA

The north end and northeast corner of the sofa displayed medium velocity spatters on the top edges and heavy contact bloodstains on the cushions. The primary analysis of this surface would be conducted from photographs. Eleven spatters were selected resulting in four (4) points of convergence with an average point of origin of 4 inches above the sofa.

END TABLE

The surface of the end table displayed several medium velocity blood spatters. Eight (8) spatters were selected to locate a point of convergence and point of origin. Two (2) points of convergence were located off the south edge of the end table at the north end of the sofa. The point of origin for both convergence's was approximately 8.75 inches above the table top.

KITCHEN FLOOR

There were several blood spatters observed on the kitchen floor apparently trailing from the west side of the kitchen to the east side of the kitchen were the females body had laid. The first group of spatters selected appeared to be dropped blood, possibly castoff blood spatters near the kitchen/breakfast area doorway. The next group of blood spatter selected were near the center of the kitchen and appeared to be splashed blood, which would indicate that a person stood over this area momentarily while issuing blood allowing the blood spatters to drop upon itself. The third group of spatters appeared to be dropped blood, indicating movement and was located west of the female victims bare feet. Nearly all the spatters occurred at or near 90 degrees to the floor. South of the area occupied by the females upper torso were two contact bloodstains in the form of zig-zag type shoe prints.

KITCHEN/DINING ROOM DOORWAY AND WEST WALL OF DINING ROOM

These areas were targets for a high degree of medium velocity blood spatter. Several points of convergence and points of origin were established toward the center of the doorway and between 4 and 13 1/2 inches into the dining room. Points of origin showed blows or impacts occurring at the following heights; 1 at 24 3/4 inches, 1 at 19 1/2 inches, 1 at 18 inches, 1 at 12 inches, 2 at 8 1/2 inches and 2 at 7 1/2 inches above the dining room floor.

BLUE HOUSECOAT

The blue housecoat removed from the females body displayed several groups of blood spatters on the backand shoulders. The blood stains were observed to be traveling in a downward direction.

BLUE HOUSECOAT con't;

There were three distinct angles of blood flow, which would indicate that victim had received a minimum of four blows or impacts to the back of the head while upright and moving.

BLOODSTAIN PATTERN ANALYSIS BACKGROUND

In acts of violence involving blunt trauma, the first impact or blow normally opens the skin which allows the blood to flow. The following impacts or blows cause the blood on the surface to be spattered onto nearby targets.

CONCLUSION

Thus the reconstruction of pertinent bloodstains as to their origin, direction of travel and targets indicate that the female victim was struck a minimum of 12 times in the back of the head. Four times while moving from the west end of kitchen to the east end, four times while falling to the floor in the kitchen / dining room doorway and four times while on the floor. The presence of the bloody shoe prints and absence of any medium velocity spatters to the rear of the female victim indicate that the assailant straddled the victim while delivering the final blows and acted as an intermediate target for any additional blood spatter. The congealed pool of blood surrounding the victims head indicated that the victim had laid in this position for sometime while issuing blood.

The reconstruction of pertinent bloodstains as to their origin, direction of travel and targets indicate that the male victim was struck a minimum of seven times while laying on his back on the sofa, with little to no movement on his part. The void area east of the end table and north of the north end of the sofa indicates that the assailant stood in location while delivering the blows to the victim acting as an intermediate target for any additional blood spatter. The contact stains on the cushions indicate that the victim had laid in this position for sometime while issuing blood.

Lake County Sheriff's Office

Technical Services

BLOODSTAIN PATTERN ANALYSIS

Spatter Number	Width (In mm)	Length (In mm)	W ÷ L = Sine	Trigonometric Ratio Table		Distance to POC	Tan X Dist. To POC = Dist. from POC to POO
				Angle	Tangent		
1	5	5	1.	89	57.290	4 1/4"	24.3"
2	6	6.8	.882	62	1.881	6 5/8"	12.5"
3	9.6	9.8	.979	78	4.705	9"	42.34"
4	9	10	.900	65	2.145		
5	8	8	1.	89	57.290		
6	4	4	1.	89	57.290		
7	10	10	1.	89	57.290		
8	12.8	13	.984	80	5.671		
9	15	17	.882	62	1.881		

Comments: Kitchen floor

Technician Signature: Farley Caudill *Farley Caudill* ID#: S-238 Date: 7/3/97

L.C.S.O. Case No: 96-11-7397 Other Agencys No: N/A

POO= Point of Origin
POC=Point of Convergence

Lake County Sheriff's Office

Technical Services

BLOODSTAIN PATTERN ANALYSIS

Spatter Number	Width (In mm)	Length (In mm)	W ÷ L= Sine	Trigonometric Ratio Table		Distance to POC	Tan X Dist. To POC = Dist. from POC to POO
				Angle	Tangent		
1	2.2	3	.733	47	1.072	19 1/2"	20.9"
2	2.6	3.6	.722	46	1.036	21"	21.7"
3	4	7	.280	16	.287	22 3/4"	6.5"
4	13	35	.371	22	.375	29 1/2"	11"
5	3	5	.600	37	.754	28"	21"
6	2	5.6	.357	21	.384	30 3/4"	11"
7	3.6	8	.450	27	.454	25 3/4"	11.5"
8	1.8	5.8	.310	18	.325	26 7/8"	9"
9	4	11	.363	22	.375	33 1/4"	12.4"

Comments: South side of doorway between kitchen and dining room

Technician Signature: Farley Caudill *Farley Caudill* **ID#:** S-238 **Date:** 7/3/97

L.C.S.O. Case No: 96-11-7397 **Other Agencys No:** N/A

POO= Point of Origin
POC=Point of Convergence

Lake County Sheriff's Office
Technical Services

BLOODSTAIN PATTERN ANALYSIS

Spatter Number	Width (In mm)	Length (In mm)	W ÷ L= Sine	Trigonometric Ratio Table		Distance to POC	Tan X Dist. To POC = Dist. from POC to POO
				Angle	Tangent		
1	1.2	2	.600	37	.754	18 1/2"	13.9"
2	4	9.4	.425	25	.466	27"	12.5"
3	3	7	.428	25	.466	32"	14.9"
4	2.2	8.2	.268	15	.268	33 1/2"	8.9"
5	1.8	6.6	.272	16	.287	35"	10.1"
6	2.6	8.8	.295	17	.306	37 1/4"	11.3"

Comments: North side of doorway between kitchen and dining room

Technician Signature: Farley Caudill *Farley Caudill* ID#: S-238 Date: 7/3/97

L.C.S.O. Case No: 96-11-7397 Other Agencys No: N/A

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Lake County Sheriff's Office

Technical Services

BLOODSTAIN PATTERN ANALYSIS

Spatter Number	Width (In mm)	Length (In mm)	W ÷ L = Sine	Trigonometric Ratio Table		Distance to POC	Tan X Dist. To POC = Dist. from POC to POO
				Angle	Tangent		
1	2	8.2	.243	14	.249	14"	3.49"
2	3	14	.214	12	.213	18 3/4"	4"
3	3	15.8	.189	11	.194	21"	4"
4	3.6	10.6	.339	19	.344	23 3/4"	8.17"
5	4.6	12.4	.370	22	.404	26 1/2"	10.7"
6	2.4	8	.300	18	.325	28 5/8"	9.3"
7	3	10	.300	18	.325	23 1/2"	7.6"
8	1.2	6	.200	12	.213	33 15/16"	7.22"
9	1.3	5	.260	15	.268	30 1/8"	8"
10	2.8	6	.466	28	.532	13"	6.9"
11	2	6	.333	19	.344	8 1/2"	2.9"
12	6	20	.300	18	.325	11"	3.5"
13	2.4	10	.240	14	.249	10 1/4"	2.5"

Comments: West wall of dining room

Technician Signature: Farley Caudill *Farley Caudill* **ID#:** S-238 **Date:** 7/3/97

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Lake County Sheriff's Office
Technical Services

BLOODSTAIN PATTERN ANALYSIS

Spatter Number	Width (In mm)	Length (In mm)	W ÷ L= Sine	Trigonometric Ratio Table Angle	Tangent	Distance to POC	Tan X Dist. To POC = Dist. from POC to POO
1	3	9	.333	19	.344	4"	1.3"
2	4	9	.444	26	.488	4"	1.9"
3	3.6	10	.360	21	.384	4"	1.5"
4	6	20	.300	17	.306	4"	1.2"
5	4	20	.200	12	.213	5 1/2"	1.2"
6	9	20	.450	27	.510	6"	3"
7	5	14	.357	21	.384	4 1/2"	1.7"

Comments: Blue house coat

Technician Signature: Farley Caudill *Farley Caudill* ID#: S-238 Date: 7/3/97

L.C.S.O. Case No: 96-11-7397 Other Agencys No: N/A

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Lake County Sheriff's Office
Technical Services

BLOODSTAIN PATTERN ANALYSIS

Spatter Number	Width (In mm)	Length (In mm)	W ÷ L= Sine	Trigonometric Ratio Table		Distance to POC	Tan X Dist. To POC = Dist. from POC to POO
				Angle	Tangent		
1	6	13.8	.434	26	.488	6"	2.9
2	4.4	14	.314	18	.325	6 3/4"	2.2"
3	4	9.2	.434	26	.488	10 3/4"	5.2"
4	6.8	14	.485	29	.554	16"	8.8"
5	2.4	6.4	.375	22	.404	15 1/4"	6.1"
6	2	5.6	.357	21	.384	11 1/2"	4.4"
7	3.2	11.2	.285	17	.306	15 1/2"	4.7"
8	2.4	8.4	.285	17	.306	14 3/4"	4.5"
9	6.4	30	.213	12	.213	7"	1.5"
10	3.6	8.8	.409	24	.445	7 1/2"	3.3"
11	4.4	13.6	.323	19	.344	7 1/2"	2.6"

Comments: Northeast corner of sofa

Technician Signature: Farley Caudill *Farley Caudill* ID#: S-238 Date: 7/3/97

L.C.S.O. Case No: 96-11-7397 Other Agencys No: N/A

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Lake County Sheriff's Office
Technical Services
BLOODSTAIN PATTERN ANALYSIS

Spatter Number	Width (In mm)	Length (In mm)	W ÷ L= Sine	Trigonometric Ratio Table		Distance to POC	Tan X Dist. To POC = Dist. from POC to POO
				Angle	Tangent		
1	15	30	.500	30	.577	5"	2.8"
2	2.6	3.6	.722	46	1.036	12 1/4"	12.9"
3	2.2	3.8	.578	35	.700	9 1/2"	6.6"
4	1.2	2.8	.428	25	.466	20 5/8"	9.6"
5	4.4	6.8	.647	40	.643	18 5/8"	11.9"
6	3	5.6	.535	32	.625	14 3/4"	9.2"
7	4	8.2	.487	29	.485	10 3/4"	5.2"
8	2.2	4	.550	33	.649	8 1/4"	5.3"

Comments: End table at north end of sofa

Technician Signature: Farley Caudill [signature] ID#: S-238 Date: 7/3/97

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BLOODSTAIN PATTERN ANALYSIS

Spatter Number	Width (In mm)	Length (In mm)	W ÷ L= Sine	Trigonometric Ratio Table		Distance to POC	Tan X Dist. To POC = Dist. from POC to POO
				Angle	Tangent		
1 a-b	10-12	20-23	.500-.521	30-31	.577-.601		
2	4.8	17	.282	16	.287		
3	11	22	.500	30	.577		
4	4	4	1.	89	57.290		
5	9	11	.818	55	1.428		
6	7	8	.875	61	1.804		
7	2	6.2	.322	19	.326		
8	2	4	.500	30	.577		
9	3	5.8	.517	31	.601		
10	2.8	5	.560	34	.675		
11	1.8	5	.360	21	.384		

Comments: Individual spatters in the family room, no points of convergence

Technician Signature: Farley Caudill *Farley Caudill* **ID#:** S-238 **Date:** 7/3/97

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